

CLAIMS

1. A seal structure of a fuel channel, including an annular seal member which effects sealing in order that high-pressure fuel within a pressure-introducing chamber may not escape onto a low-pressure side through a gap that is defined between an injector housing and a valve body having a valve piston slidably inserted therein, and which is disposed in the pressure-introducing chamber; characterized in that a backup ring having a rigidity is arranged between the gap and the seal member, and that the backup ring is provided with a holding mechanism for holding the seal member.

2. A seal structure of a fuel channel as claimed in claim 1, wherein the holding mechanism is formed as a plurality of pawls which are provided unitarily with the backup ring.

3. A seal structure of a fuel channel as claimed in claim 2, wherein the seal member is fixed to the backup ring by the plurality of pawls.

4. A fuel injection valve including an annular seal member which effects sealing in order that high-pressure fuel within a pressure-introducing chamber may not escape onto a low-pressure side through a gap that is defined between an

injector housing and a valve body having a valve piston slidably inserted therein, and which is disposed in the pressure-introducing chamber; characterized by comprising a seal structure in which a backup ring having a rigidity is arranged between the gap and the seal member, and in which the backup ring is provided with a holding mechanism for holding the seal member.

5. A fuel injection valve as claimed in claim 4, wherein the holding mechanism is formed as a plurality of pawls which are provided unitarily with the backup ring.

6. A fuel injection valve as claimed in claim 5, wherein the seal member is fixed to the backup ring by said plurality of pawls.